



TITLE: EXTENDING ROLE SCOPE IN A DIRECTORY SERVER SYSTEM

Inventor(s): Karine Excoffier and Robert Byrne

USSN: 10/613,660

Attorney Docket #: SUN-P7528

1/18

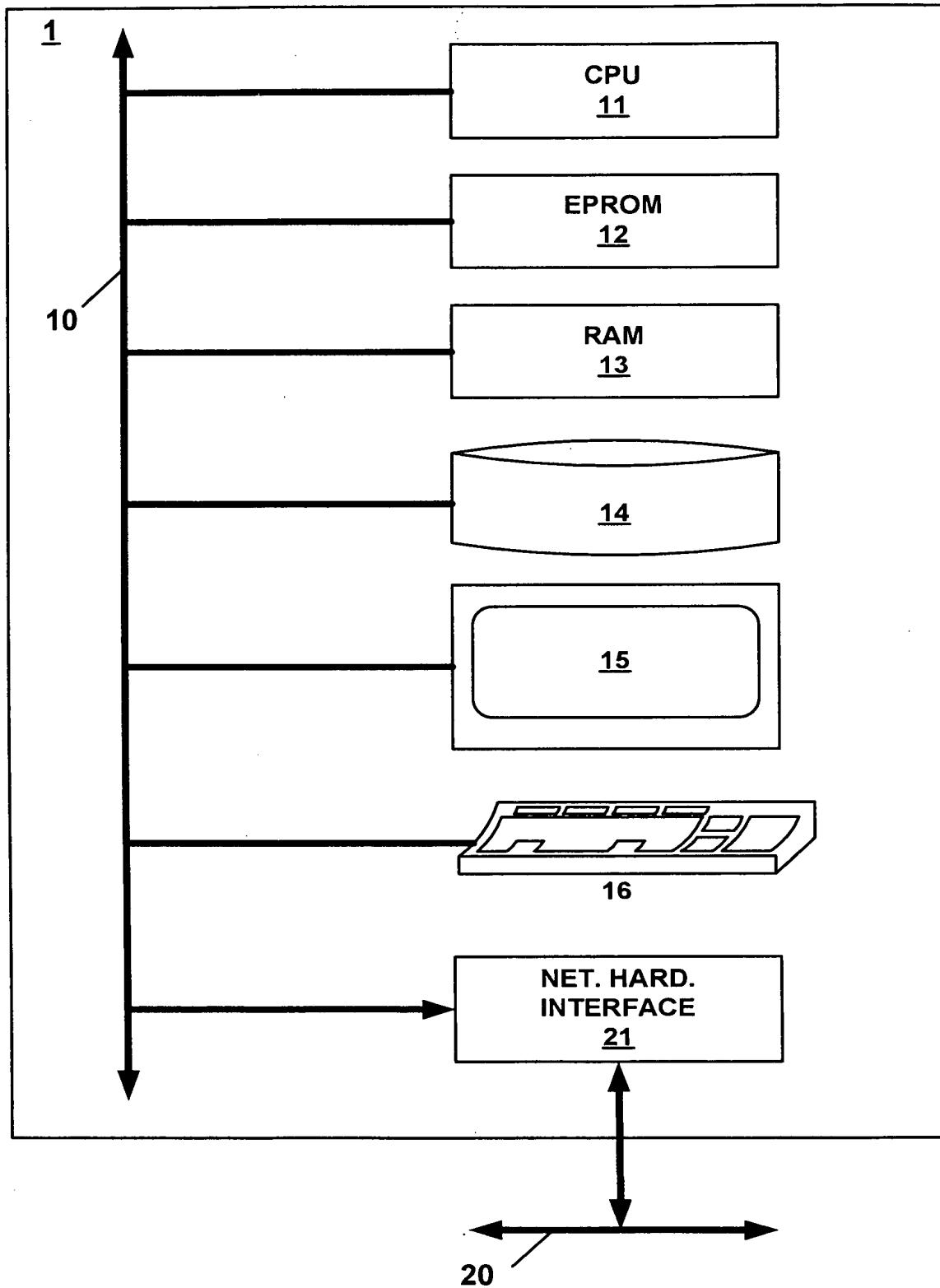


FIGURE 1



2/18

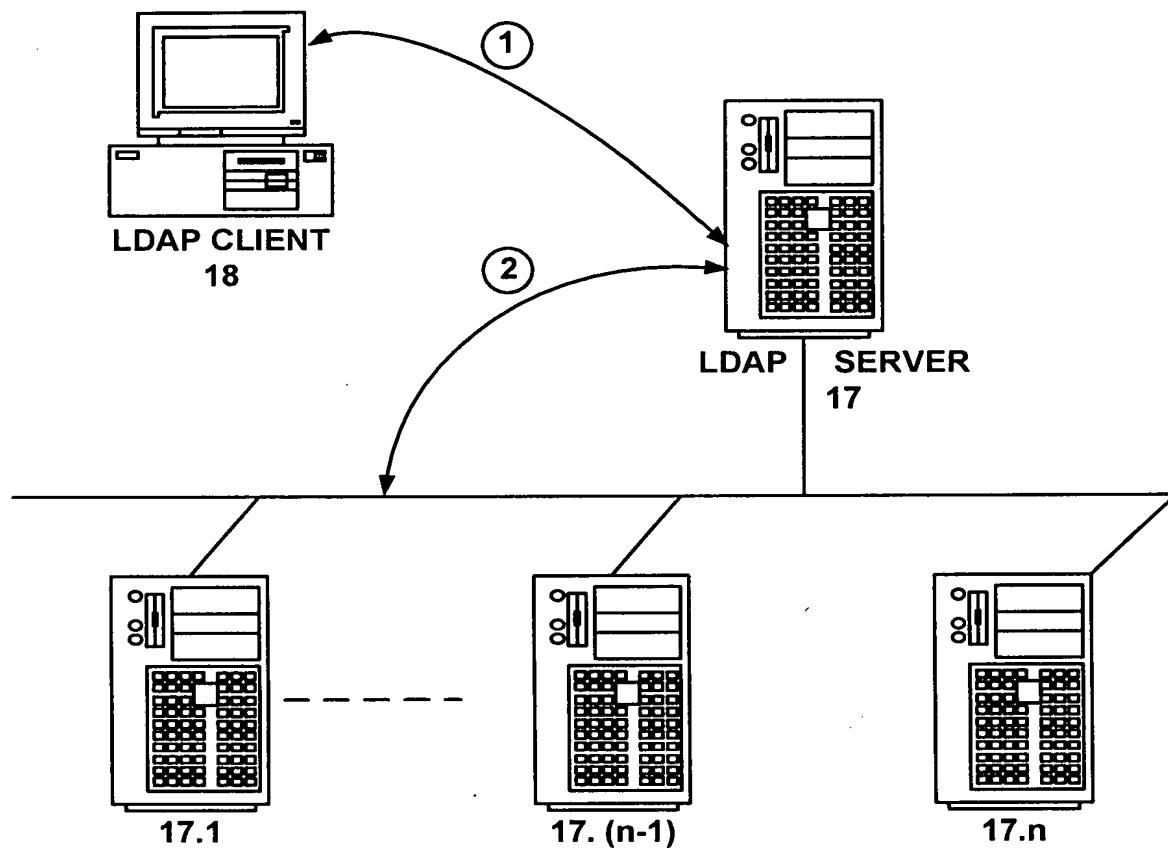


FIGURE 2



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3/18

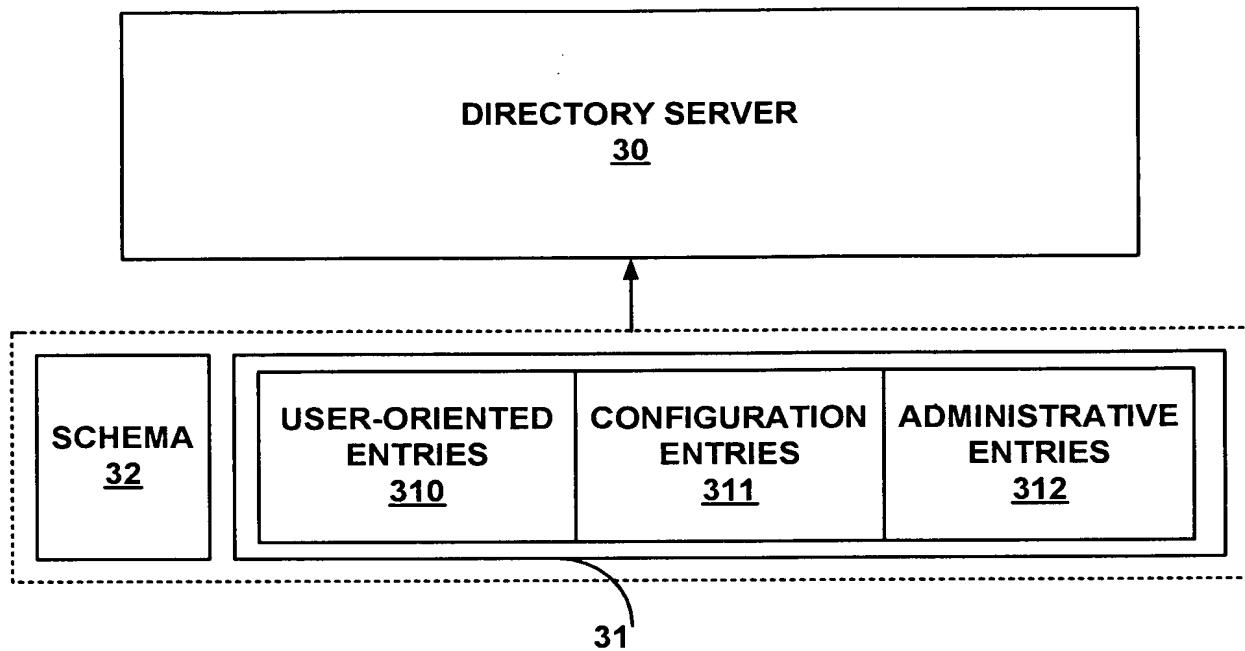


FIGURE 3



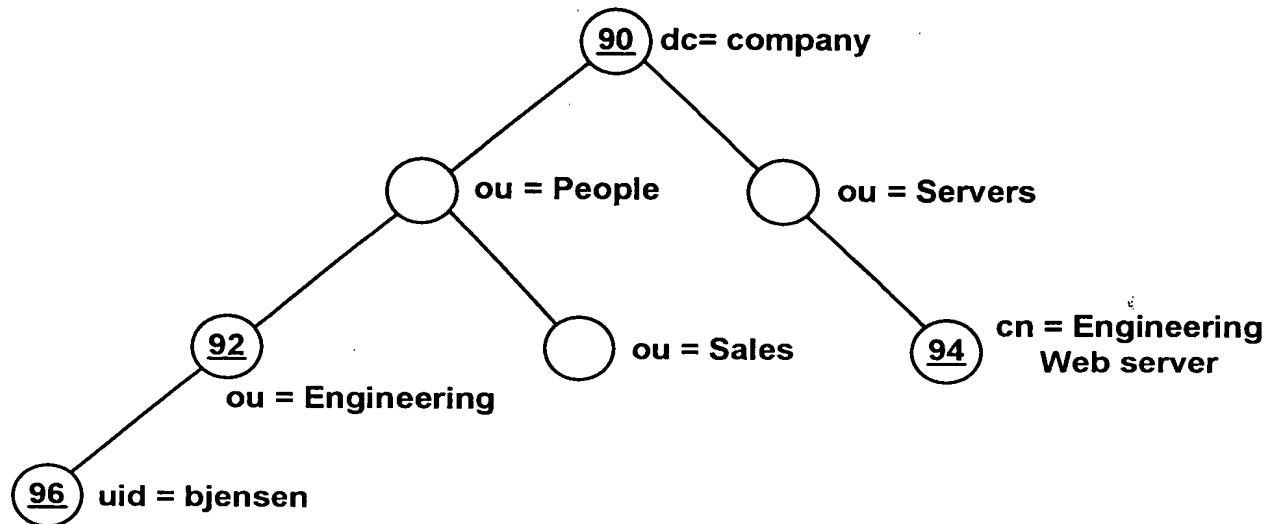
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4/18



**FIGURE 4
(PRIOR ART)**



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5/18

ENTRY
404

ATTRIBUTE TYPE
400

ATTRIBUTE VALUE
402

dn :	uid=Joe, ou=people, dc=france, dc=sun, dc=com
objectClass :	top
objectClass :	person
objectClass :	organizationPerson
objectClass :	inetOrgPerson
cn :	Joe
sn :	Rayan
uid :	joerayan
mail :	joerayan@sun.com
phoneNumber :	778

**FIGURE 5
(PRIOR ART)**



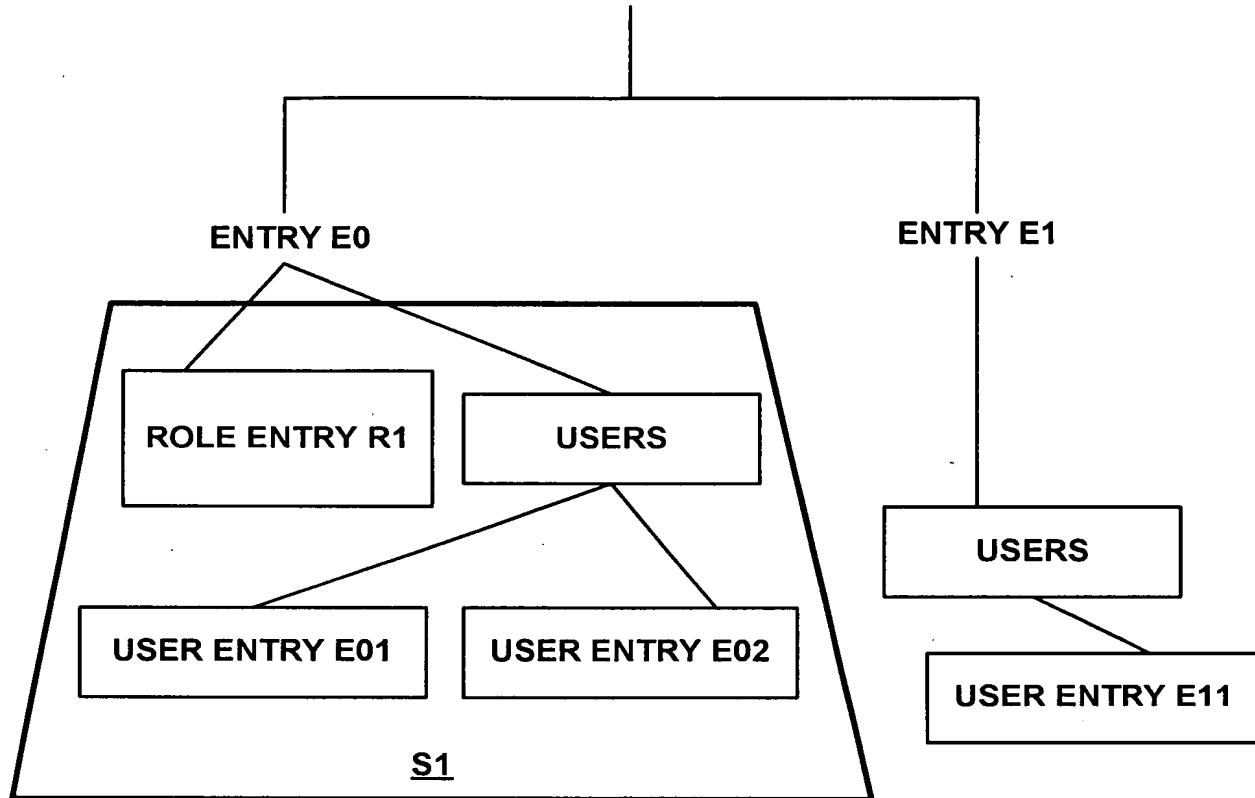
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6/18



**FIGURE 6
(PRIOR ART)**



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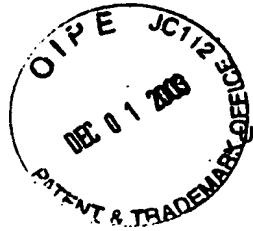
USSEN: 10/613,660

Attorney Docket #: SUN-P7528

7/18

ROLE TYPE <u>701</u>	OBJECT CLASSES <u>71</u> nsSimpleRoleDefinition nsManagedRoleDefinition	ATTRIBUTES <u>72</u> description (optional)
FILTERED ROLE <u>702</u>	nsComplexRoleDefinition nsFilteredRoleDefinition	NsRoleDN description (optional)
NESTED ROLE <u>703</u>	nsComplexRoleDefinition nsNestedRoleDefinition	NsRoleDN description (optional)

**FIGURE 7
(PRIOR ART)**



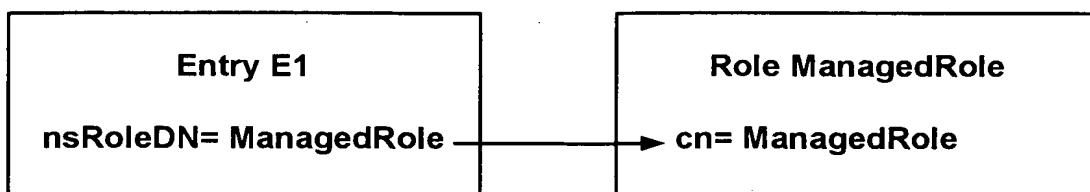
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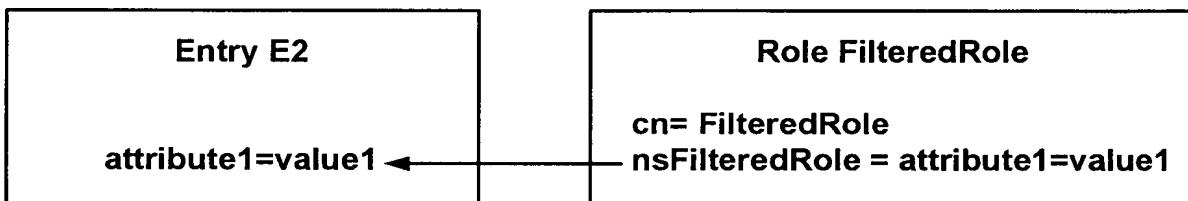
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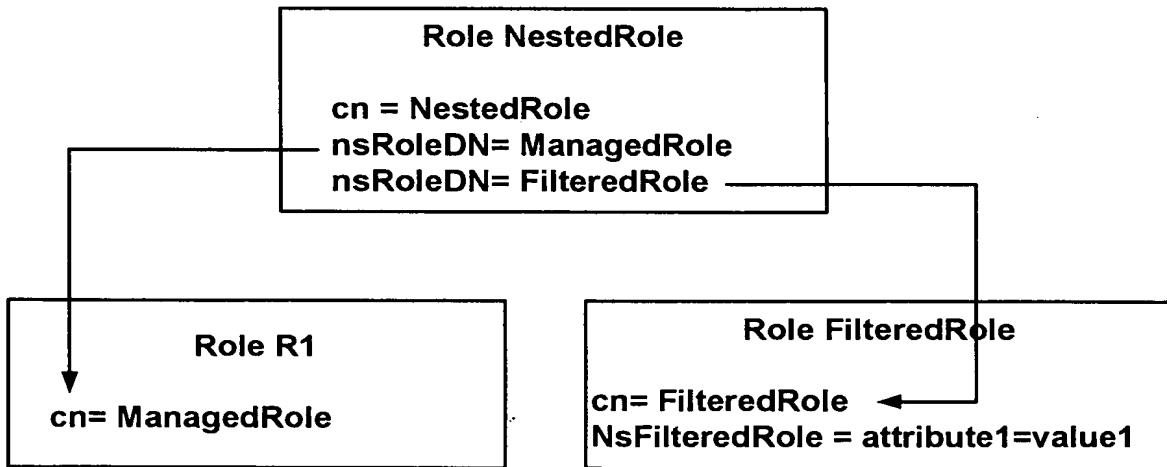
8/18



**FIGURE 8A
(PRIOR ART)**



**FIGURE 8B
(PRIOR ART)**



**FIGURE 8C
(PRIOR ART)**



9/18

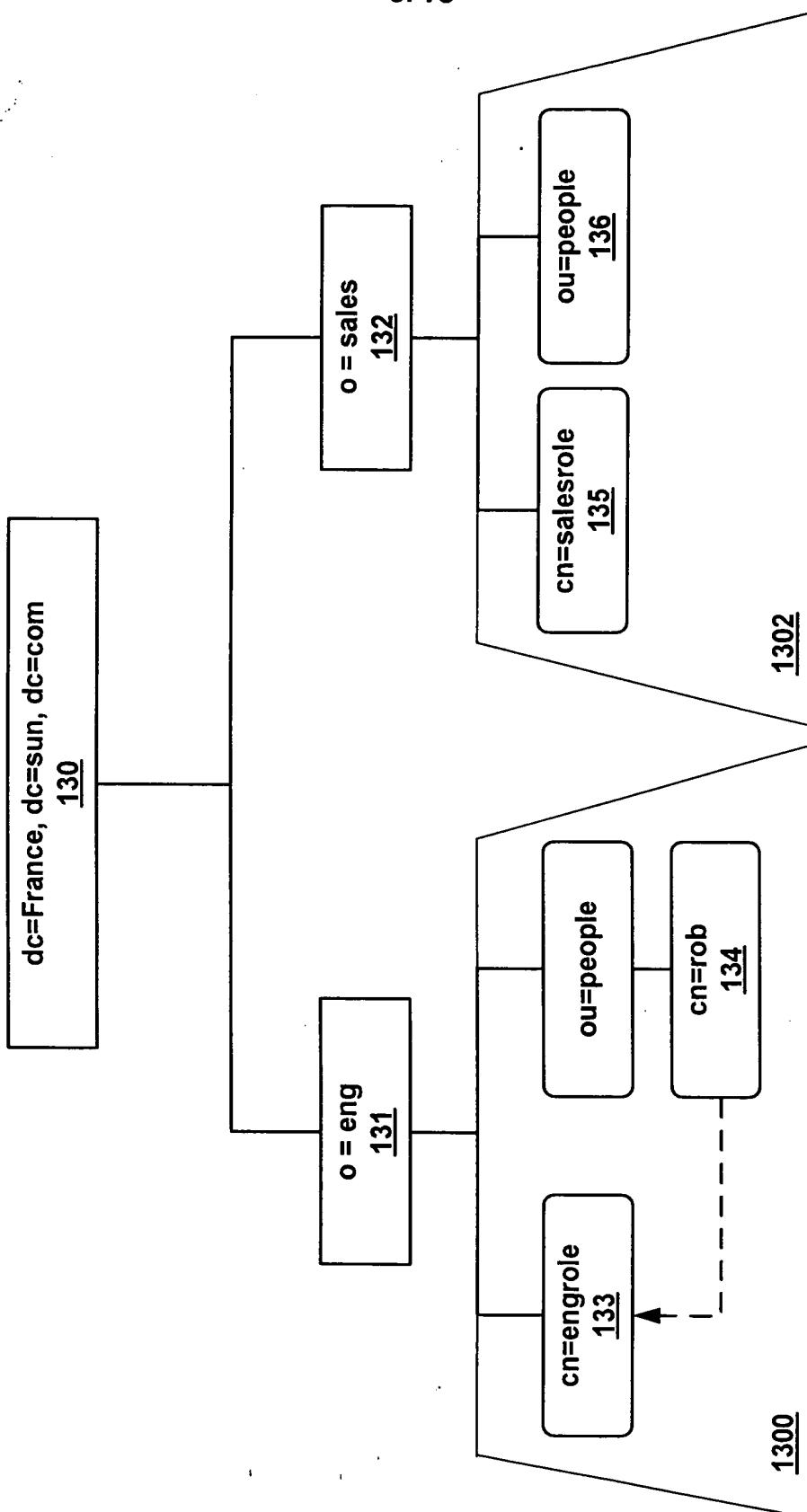


FIGURE 9

10/18

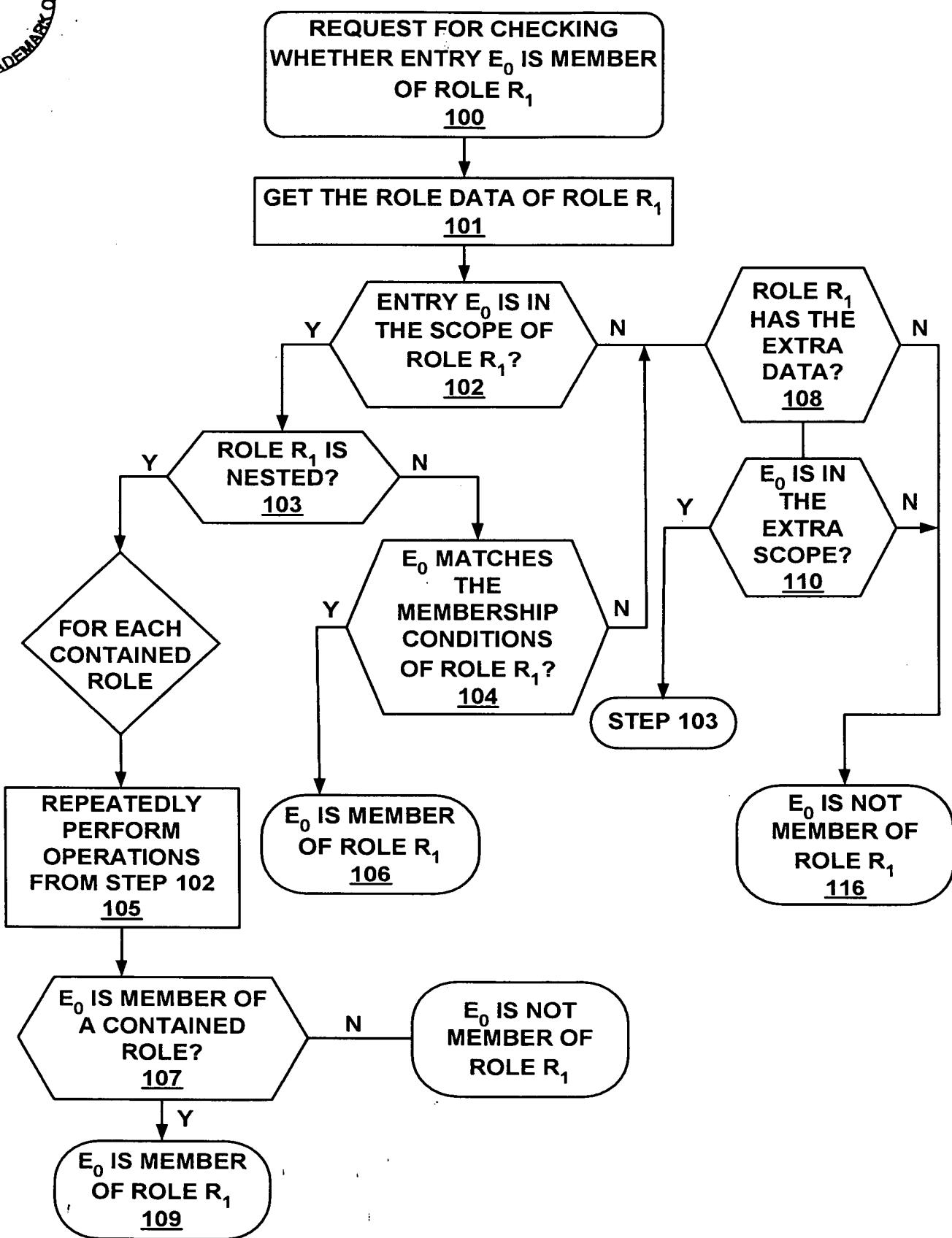


FIGURE 10

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Att rney Docket #: SUN-P7528



11/18

ATTRIBUTES	ATTRIBUTE VALUES
<i>dn</i>	DISTINGUISHED NAME OF THE NESTED ROLE
<i>objectclass</i>	OBJECT CLASSES OF THE NESTED ROLE
<i>nsRoleScopeDn</i>	DISTINGUISHED NAME OF THE EXTENDED SCOPE
<i>nsRoleDn</i>	DISTINGUISHED NAMES OF THE ROLES CONTAINED BY THE NESTED ROLE

FIGURE 11



12/18

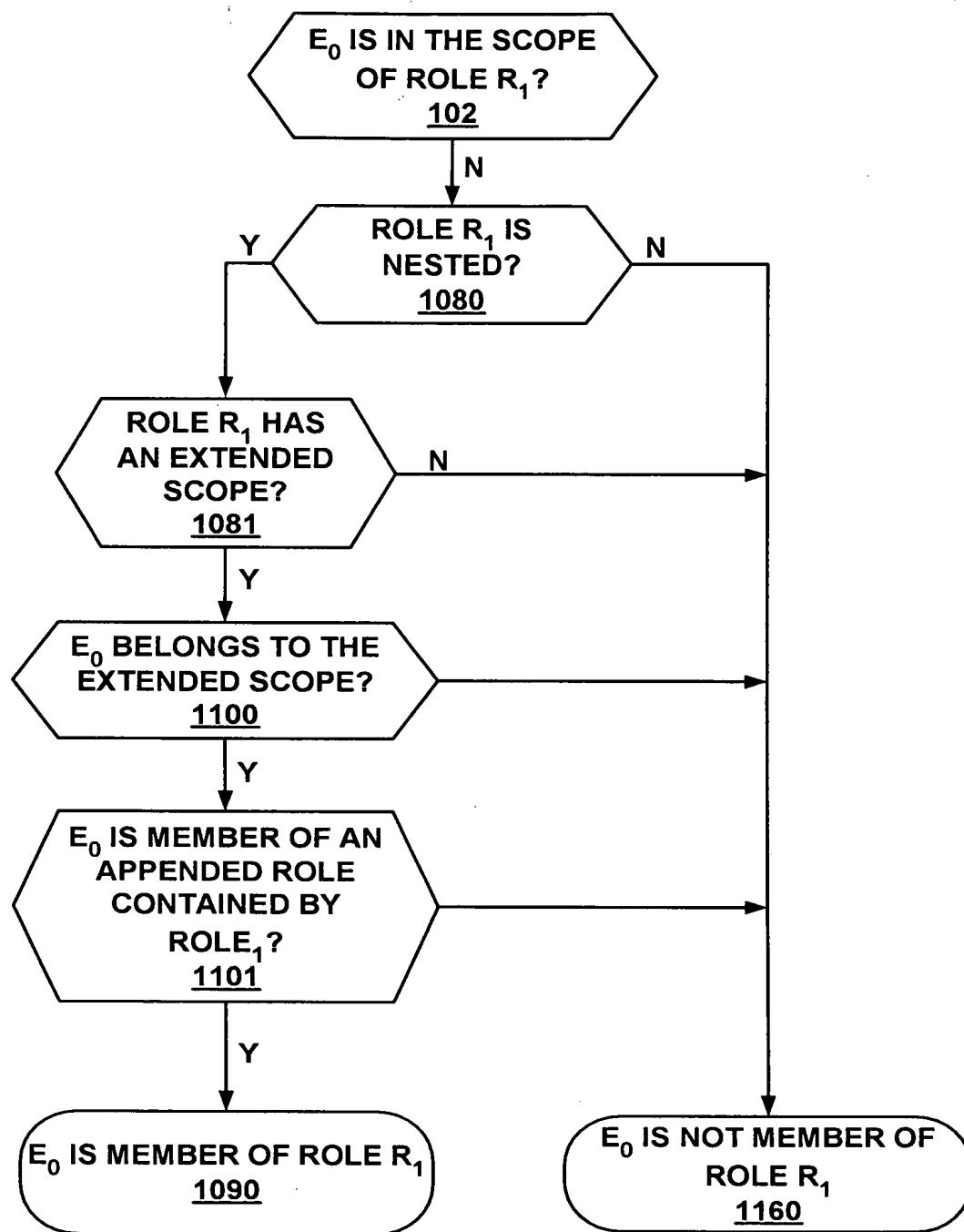
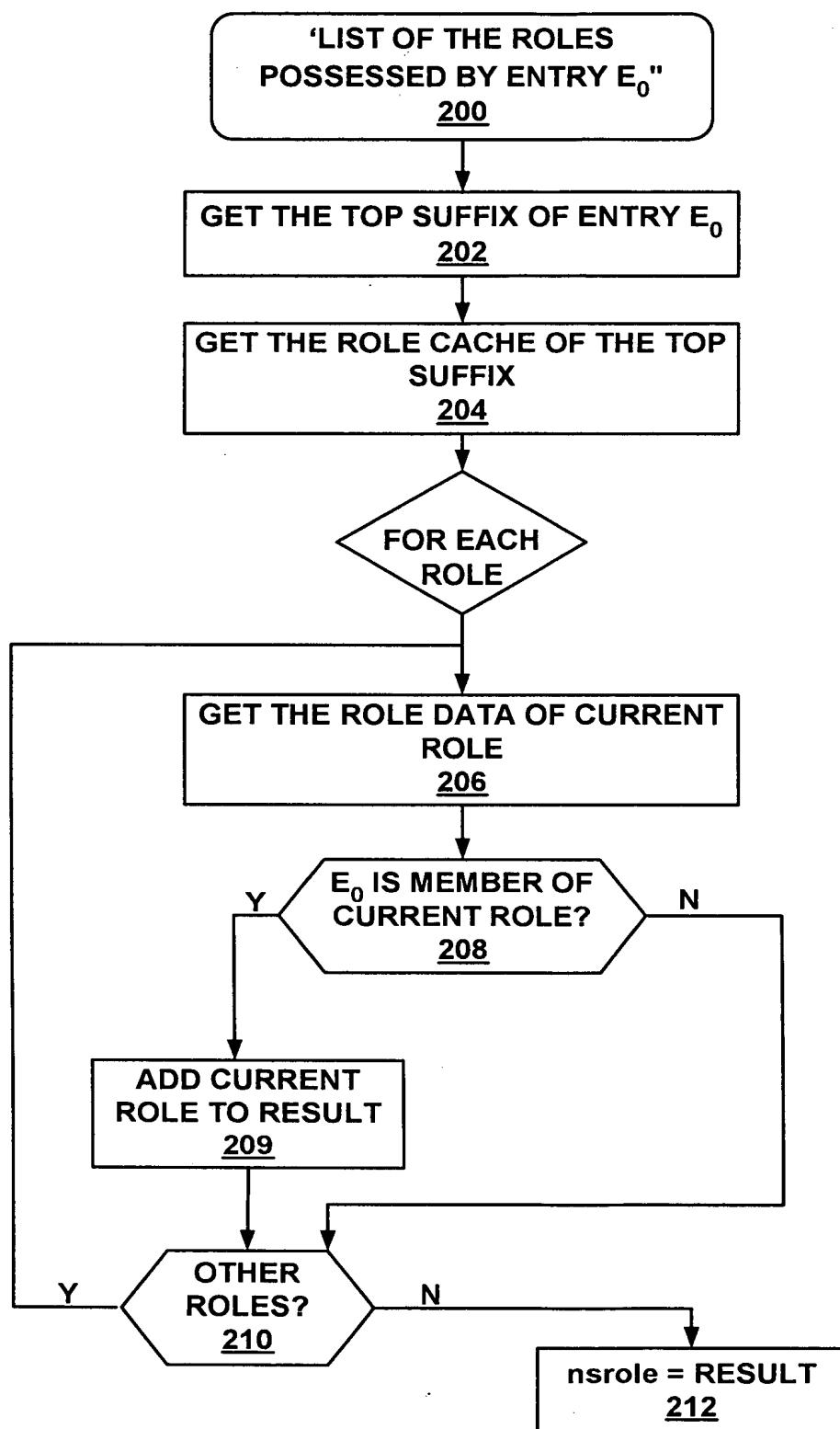


FIGURE 12



13/18



**FIGURE 13A
(PRIOR ART)**



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Attorney Docket #: SUN-P7528

14/18

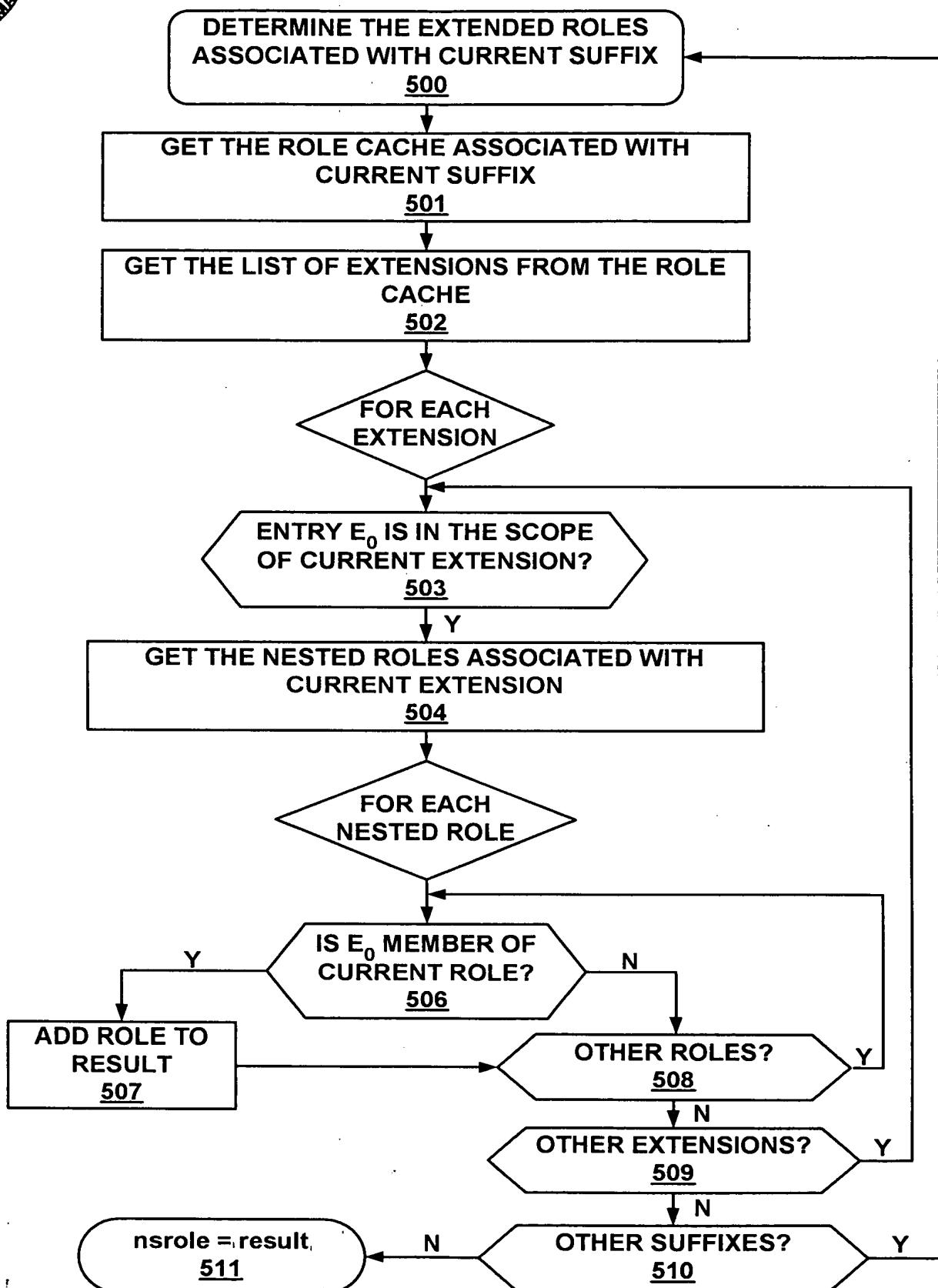


FIGURE 13B

TYPE JC1/2
RE 01 2005
TRADEMARK OFFICE

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SSN: 10/613,660

Attorney Docket #: SUN-P7528

15/18

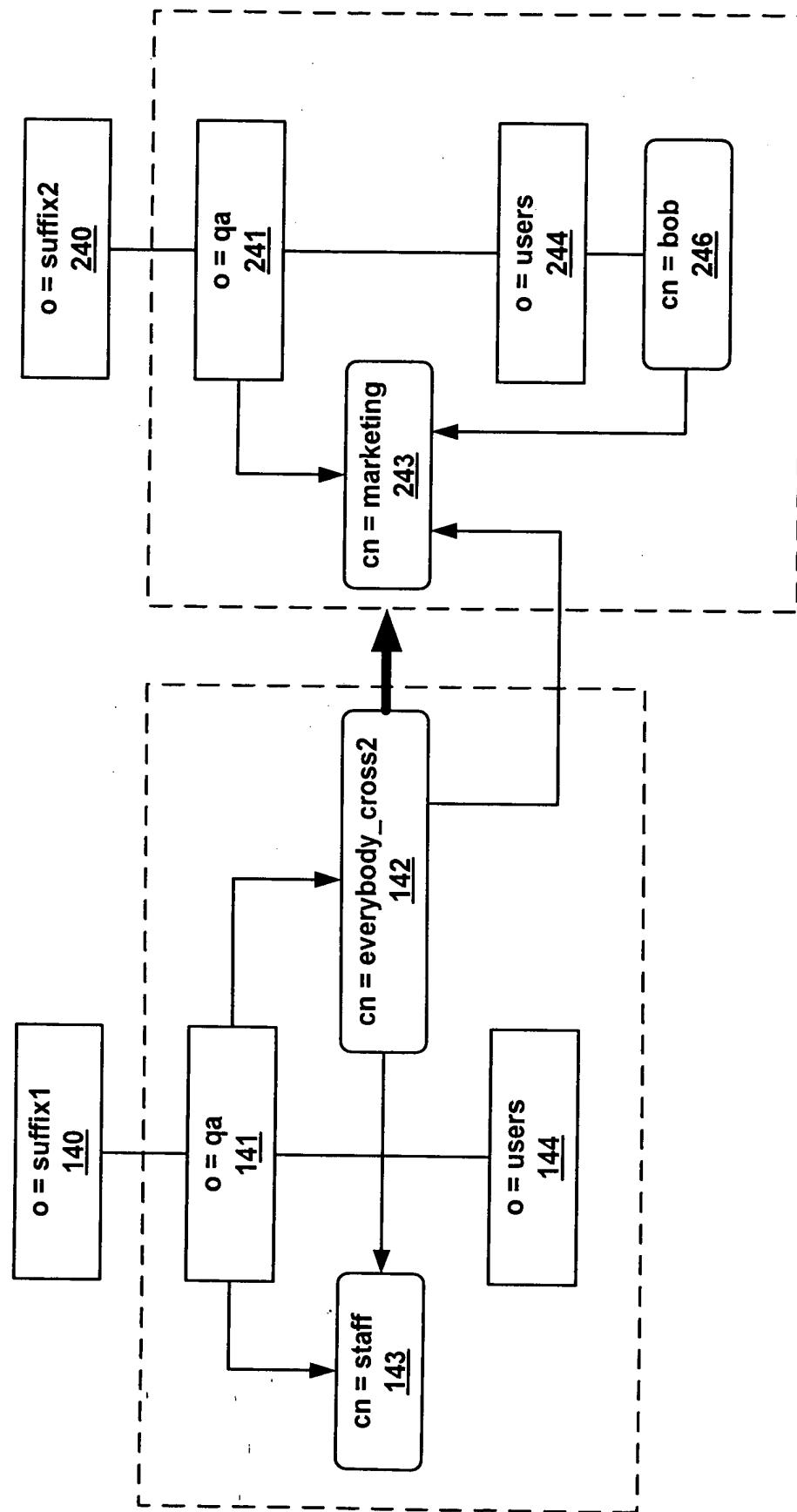


FIGURE 14



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16/18

SUFFIX DN <u>L1</u>	AVL TREE <u>L2</u>	...	EXTENSIONS <u>L3</u>	NEXT <u>L4</u>
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FIGURE 15A

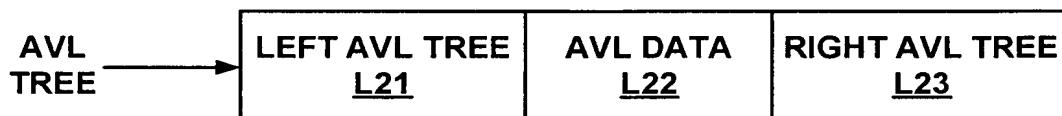


FIGURE 15B



FIGURE 15C

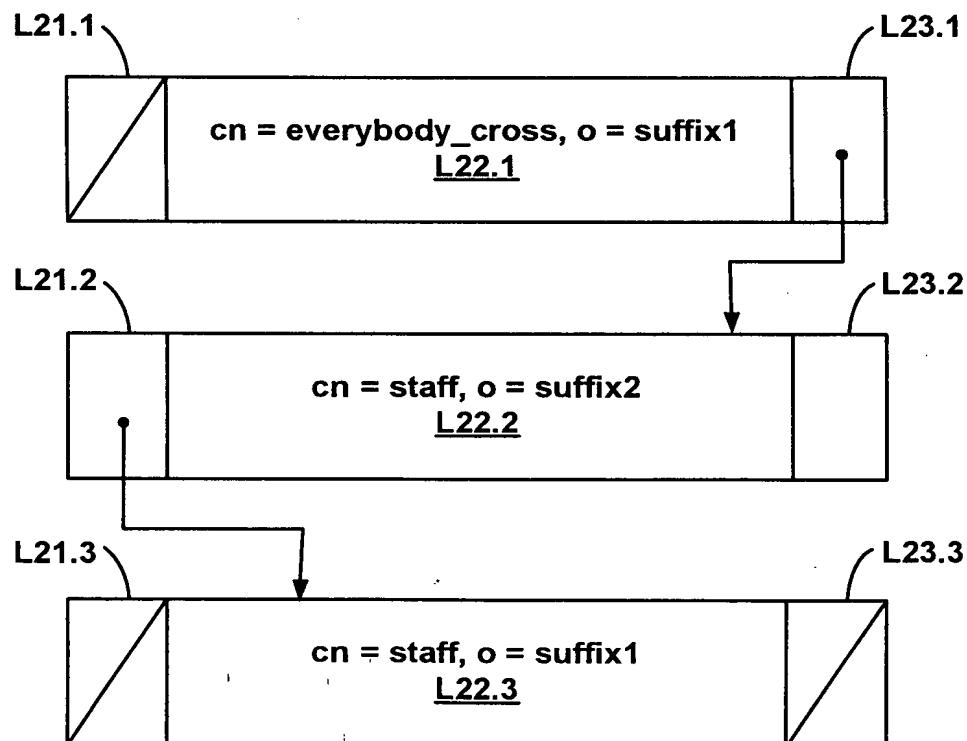
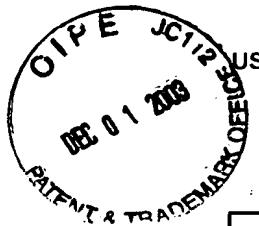


FIGURE 16



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Attorney Docket #: SUN-P7528

17/18

ROLE DN <u>L221</u>	ROLE TYPE <u>L222</u>	SCOPE EXTENSION DN <u>L223</u>	AVL TREE <u>L224</u>
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FIGURE 17

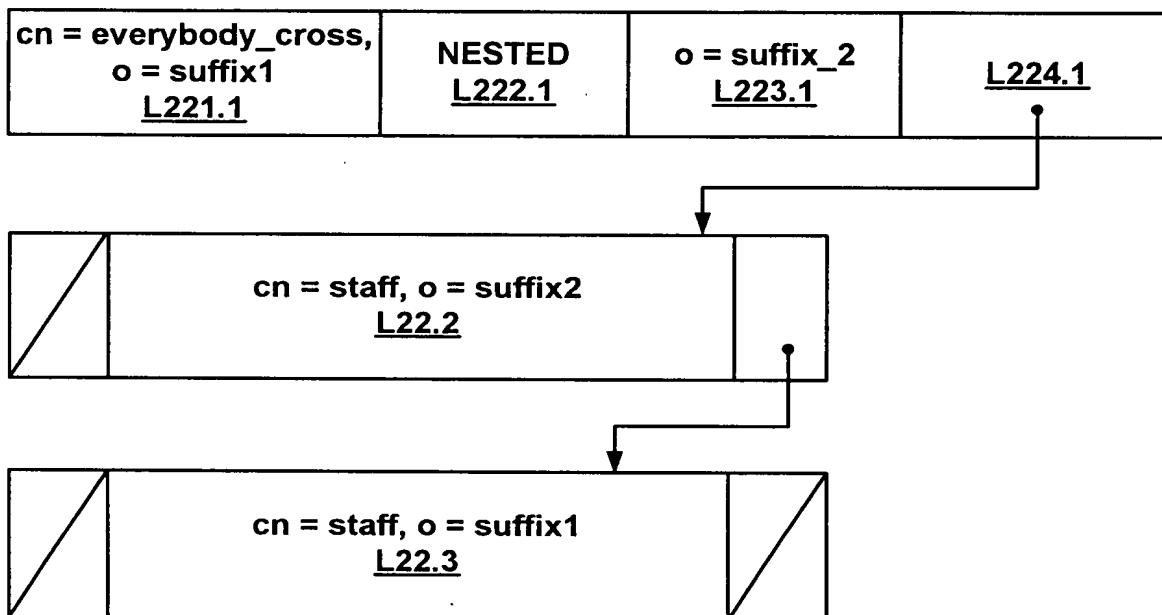


FIGURE 18A

cn = staff, o = suffix2 <u>L221.2</u>	MANAGED <u>L222.2</u>
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FIGURE 18B

cn = staff, o = suffix1 <u>L221.3</u>	MANAGED <u>L222.3</u>
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FIGURE 18C



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18/18

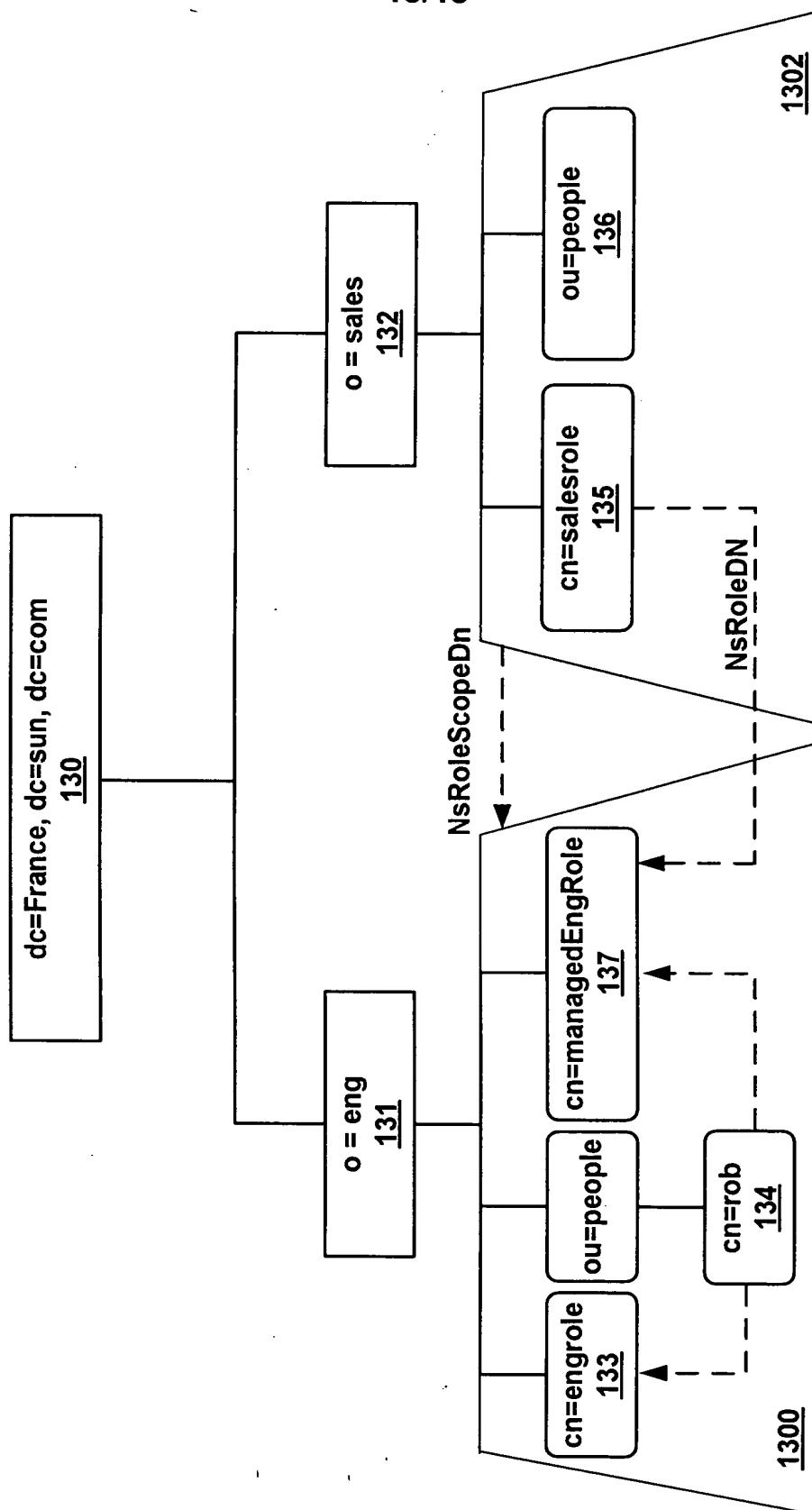


FIGURE 19